

172



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q92863

Junya TOGUUCHIDA

Appln. No.: 10/565,831

Group Art Unit: Not yet assigned

Confirmation No.: Not yet assigned

Examiner: Not yet assigned

Filed: January 25, 2006

For: REMEDY FOR CARTILAGE-RELATED DISEASES

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, along with a copy of the corresponding Communication from a Foreign Patent Office, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action

INFORMATION DISCLOSURE STATEMENT

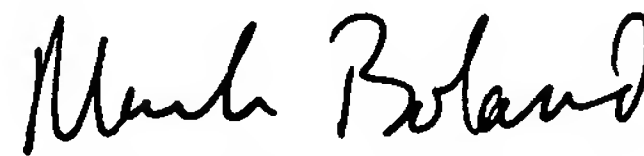
U.S. Appln. No.: 10/565,831

on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



Mark Boland
Registration No. 32,197

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: April 28, 2006

Substitute for Form 1449 A & B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Sheet		1	of	2	Application Number	10/565,831
					Confirmation Number	Not yet assigned
					Filing Date	January 25, 2006
					First Named Inventor	Junya TOGUUCHIDA
					Art Unit	Not yet assigned
					Examiner Name	Not yet assigned
					Attorney Docket Number	Q92863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US 2001/0056060	A1	12/27/2001	Cameron et al.
		US 6,262,293	B1	07/17/2001	Tani et al.
		US 6,235,780	B1	05/22/2001	Ohuchida et al.
		US 6,110,969	A	08/29/2000	Tani et al.
		US 6,288,119	B1	09/11/2001	Ohuchida et al.
		US 6,133,230	A	10/17/2000	Anastassiades
		US			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		EP	1 121 939	A2	08/08/2001		English
		EP	1 205 189	A2	05/15/2002		English
		EP	1 312 601	A1	05/21/2003		English
		EP	1 314 719	A1	05/28/2003		English
		EP	0 445 948	A2	09/11/1991		English
		EP	0 860 430	B1	08/26/1998		English
		WO	98/27976	A1	07/02/1998		English
		WO	98/58911	A2	12/30/1998		English
		WO	02/092064	A2	11/21/2002		English
		WO	03/045371	A1	06/05/2003		English
		EP	1 431 267	A1	06/23/2004		English

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		V.L. Sylvia et al., "Transforming growth factor- β 1 regulation of resting zone chondrocytes is mediated by two separate but interacting pathways" (2000), Biochimica et Biophysica Acta 1946, pp. 311-324	
		Enrique Rosado et al., "Transforming growth factor- β 1 regulation of growth zone chondrocytes is mediated by multiple interacting pathways" (2000), Biochimica et Biophysica Acta 1946, pp. 1-15	
		Artur J. de Brum-Fernandes et al., "Characterization of the PGE ₂ receptor subtype in bovine chondrocytes in culture" (1996), British Journal of Pharmacology, Vol. 118, pp. 1597-1604	
		Tetsuo Suzawa et al., "The Role of Prostaglandin E Receptor Subtypes (EP1, EP2, EP3, and EP4) in Bone Resorption: An Analysis Using Specific Agonists for the Respective EPs" (2000), Vol. 141, No. 4, pp. 1554-1559	
		F. Del Toro et al., "Characterization of Prostaglandin E ₂ Receptors and Their Role in 24,25-(OH) ₂ D ₃ -Mediated Effects on Resting Zone Chondrocytes" (2000), Journal of Cellular Physiology, pp. 196-208	
		V.L. Sylvia et al., "Characterization of PGE ₂ receptors (EP) and their role as mediators of 1 α ,25-(OH) ₂ D ₃ effects on growth zone chondrocytes" (2001), Journal of Steroid Biochemistry & Molecular Biology, Vol. 78, pp. 261-274	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO <u>INFORMATION DISCLOSURE</u> <u>STATEMENT BY APPLICANT</u> <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/565,831
				Confirmation Number	Not yet assigned
				Filing Date	January 25, 2006
				First Named Inventor	Junya TOGUCHIDA
				Art Unit	Not yet assigned
				Examiner Name	Not yet assigned
Sheet	2	of	2	Attorney Docket Number	Q92863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
		US			
		US			
		US			
		US			
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		V.M. Paralkar et al., "An EP2 receptor-selective prostaglandin E ₂ agonist induces bone healing" (2003), PNAS, Vol. 100, No. 11, pp. 6736-6740	
		Jennifer M. McCoy et al., "The role of prostaglandin E2 receptors in the pathogenesis of rheumatoid arthritis" (2002), The Journal of Clinical Investigation, Vol. 110, No. 5, pp. 651-658	
		International Search Report dated October 26, 2004	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.